

Item	Quantity	Purchased	3D-printed	Manufactured	Price
Basic framework					
Aluminum Extrusion 30x30x400 mm	4	x			39,08 \$
Aluminum Extrusion 30x30x340 mm	6	x			included above
Aluminum Extrusion 30x30x540 mm	4	x			included above
Mechanical Parts					
3D-Motion					
Stepper Motor Nema 17	3	x			18.00 \$
Twin Pulley GT2 20 Tooth 5mm Bore	2	x			4.00 \$
220mm 2GT-6 endless belt	2	x			0.80 \$
600mm-2gt-6 closed-loop belt	2	x			2.00\$
616mm closed-loop gt2 belt	2	x			2.00 \$
GT2 Pulley 20 Teeth 8mm Bore	10	x			20.00\$
GT2 Double Pulley 20 Teeth 8mm Bore	4	x			8.00 \$
Spindle T8 600MM, Spindle Nut, Shaft Coupling	1	x			21.31\$
Linear rod 6mm Aluminium	4	x			6.61 \$
Linear rod 8mm steel	8	x			55.50 \$
Linear rod 12mm Aluminium	2	x			12.35 \$
16mm rod support	2		x		-- / --
SK16 smooth rod support	6	x			10.80 \$
SK12 Rod End	4	x			4.80 \$
LM12LUU Linear Bearing	2	x			4.00 \$
LM6UU Linear Bearing	2	x			1.80 \$
Flanged Ball Bearing F688ZZ	8	x			4.00 \$
UM2 Ultimaker 2 DIY Injection Molding Sliding Block	4	x			19.68 \$
Sample stage					
Mounting, z-axis	2			x	-- / --
Aluminium frame 354x332x3mm	1			x	-- / --
Plexiglass 270x270x5mm, infrared-transp	1	x			10.00 \$
Aluminium plate 40x34x3mm	1			x	-- / --
Lightbox					
Infrared-Diffusion-Plexiglas 270x270x3mr	1	x			12.00 \$
Protective-Layer-Plexiglas 270x270x3mm	1	x			12.00 \$
Infrared-Reflection-Plexiglas 270x270x3rr	1	x			12.00 \$
"Endlighten Plexiglas" 270X270x6mm	1	x			12.00 \$
LED-Attachment bar	4		x		-- / --
Bar	4		x		-- / --
Aluminium Bottom Plate 300x300x3mm	1			x	-- / --
Cover Panel Frame 300x300x3mm	1			x	-- / --
Spacer 155x15x3mm	8		x		-- / --
Attachment Elbow	4		x		-- / --
Quarter Aluminium Top	4			x	-- / --
Aluminium plate 340x30x3mm	2			x	-- / --
Aluminium plate 400x30x3mm	2			x	-- / --
Aluminium elbow	4			x	-- / --
Head					
Sheet Metal 50x10x1mm	4			x	-- / --

Linear Rod Linkup 20x20x44mm	1		x		-- / --
Aluminium Baseplate 50x50x2mm	1			x	-- / --
Stator	1		x		-- / --
Stator Top	1		x		-- / --
Lensholder	1		x		-- / --
Frame Base	1		x		-- / --
Camera Base	1		x		-- / --
Longpass filter, 515 nm upwards	1	x			42.66 \$
Voice Coil	1	x			5.00 \$

Cooling

MDF Baseplate 358x358x3mm	1	x			2.00 \$
Powersupply Air Entrance	1		x		-- / --
Air Exhauster Plate 358x358x3mm (laser	1	x			1.00 \$
Air Fan	1	x			3.00 \$
Exhaust hood	1			x	-- / --
Exhaust grid	1			x	-- / --

Syringe Pump

Stepper Motor Nema 17	1	x			6,00 \$
Nema 17 adapter 5mm to 8mm	1	x			1.03 \$
Threaded Rod 8mm	1	x			2.13 \$
Guiding Rod 8mm	1	x			1.57 \$
Holding Pipes 10mm	1	x			0.87 \$
Mountings 3D printed	1		x		-- / --
Stepper Motor Mounting	1		x		-- / --
Pushing Part Syringe	1		x		-- / --
Holding Middle Part Syringe	1		x		-- / --
Holding Front Part Syringe	1		x		-- / --

Sundries

M3 thread screw	~50	x			4.00 \$
M4 thread screw	~4	x			0.30 \$
M5 thread screw	~80	x			6.40 \$
M8 thread screw	~20	x			1.80 \$
M5 thread t-nut 8	~70	x			18.20 \$

Electronics

Raspberry Pi CCD CAM V2	1	x			38.17 \$
Raspberry Pi 3	1	x			37.05 \$
Micro SD Card	1	x			4.49 \$
Powersupply ATX	1				salvaged
Arduino Mega 2560	1	x			23.99 \$
RepRap Arduino Mega Pololu Shield (RAMPS) 1.4	1	x			included above
DRV8825 Stepper Treiber	4	x			included above
Kabel und Connector		x			included above
RAMPS-Adapter fürs LCD	1	x			included above
LED 860 nm Infrared	25	x			10.10 \$
PowerLED 475 nm	4	x			25.00 \$
Constant current source 0.9 Amps	1	x			16.75 \$
Constant current source 50 mA	6	x			8,40 \$
L298N Stepper Driver	2	x			8.00 \$